

Introduction

The Teldat-V router is the ultimate IP communications solution for small and medium-sized offices as it includes the most popular fixed access methods: Ethernet and ADSL2+/VDSL2 and 3G/4G mobile connections, the latter being a very effective backup mechanism.

Teldat-V is cost-efficient and scalable as Ethernet and DSL connections, despite always being included, may be deactivated if not required and subsequently reactivated for migration of a DSL service to an Ethernet service with DSL backup.

A 4-port Gigabit Ethernet switch and optional Wi-Fi connection is included for the internal network.

Product Highlights

- ▶ Ethernet and/or ADSL/VDSL access, both licensable
- ▶ Optional 3G or 3G/4G integration + USB port
- ▶ Licensable integrated Wi-Fi access point
- ▶ 4-port Gigabit Ethernet switch
- ▶ Advanced software, IPSec, ToIP, CLI
- ▶ No fan, silent
- ▶ Console port for out of band management

Interfaces

Teldat-V

VDSL2/ADSL2+ annex-A	Optional (remote activation)
Gigabit Ethernet WAN	Optional (remote activation)
Mobile access (3G or 3G/4G)	Optional (factory option)
4-port Gigabit Ethernet switch	Yes
Wi-Fi 802.11n Access Point (2.4-5Ghz)	Optional (remote activation)
USB port for 3G/4G modems	Optional (remote activation)
Console port	Yes
Reset button	Yes

Competitive Advange

Scalable platform - fixed/mobile access	It includes fixed Ethernet and ASDFSL/VDSL connections, but both are optional to avoid payment of unused functions, and facilitates scalability.
Extended local connection	Four Ethernet ports 10/100/1000 with advanced functions VLAN, 802.1P/Q/X and Wi-Fi 802.11n Access Point.
Professional software	Teldat operating system configurable with a command line, backed up by hundreds of thousands of units in the most demanding environments.
Designed for work areas	Suitable for installation in offices as its lack of fans guarantees total absence of noise In-depth information on its status through its 11 LED panel.

Scenarios

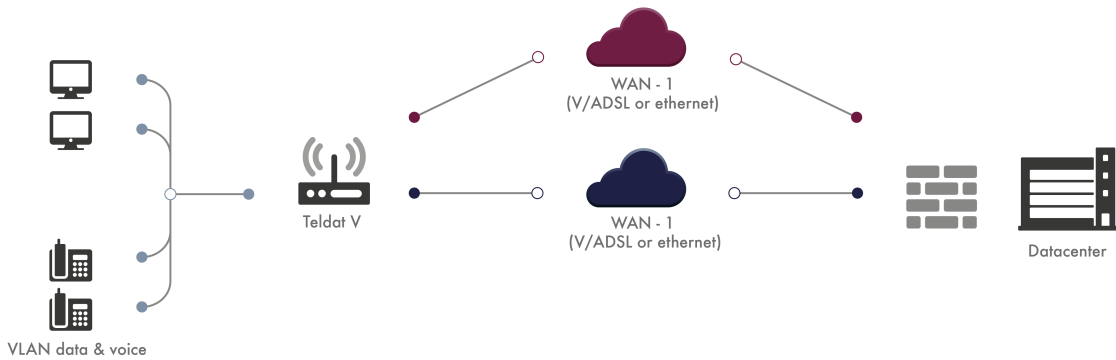


Figure: Cable connection

Key Features

ADSL/VDSL connection Annex A ADSL, ADSL2, ADSL2+, VDSL2 compatibility. This interface can be initially disabled to reduce costs when not required and subsequently reactivated either on the device or remotely.

Gigabit Ethernet WAN connection Automatically detectable 10/100/1000 speed. This interface can be initially disabled to reduce costs when not required and subsequently reactivated either on the device or remotely.

3G or 3G/4G connection 4G-LTE wireless access is the perfect backup solution through using a different infrastructure to fixed access points. It can also be used at the same time as fixed connections for balancing.

4xGE switch The integrated switch is ideal for small offices as it avoids the use of an external switch and therefore reduces costs and failure points. GE, duplex and autonegotiable ports.

Wi-Fi Access Point Teldat-V may optionally support an 802.11n Wi-Fi Access Point at 2.4/5 GHz MIMO 2x2 and an External Access Point Controller. With SSID support for guests and a Captive Portal.

Security: Firewall, IPSec, ... Corporate communications require corporate security. Teldat-V includes state-of-the-art security free of charge: ACLs, Firewall, 802.1X, IPSec with hardware encryption, etc.

VoIP server Complete SIP server with basic SBC (Session Border Controller) included by default. It can be used to isolate/conceal the internal voice network to improve voice security and for survival purposes.

Advanced services Teldat-V includes an IP switching engine with advanced functions required in corporate networks and operator services, prepared for highly demanding scenarios like MPLS and managed services.

No fan. Silent In small offices there is not enough space and sometimes routers have to be installed in work areas. Teldat-V is especially designed for such environments as its noise level is zero.

Console port Managed Operator and Integrator services require out of band management to prevent interference with the client's network and the console port is the most common method used.

HARDWARE TECHNICAL FEATURES

ADSL/VDSL interface (optional, licensable)

ADSL/ADSL2+/VDSL2 compatible on analog lines (RJ11 connector)
ADSL: Ansi, g.dmt, g.dmt.bis, g.dmt.bis-plus, g.lite. Annexes A, M and L
VDSL: G.993.2. Profiles: 8a, 8b, 8c, 8d, 12a, 12b, 17a

Wi-Fi interface (optional, licensable)

Access Point mode 802.11abgn selectable 2.4/5 GHz
MIMO 2x2 with external antennas (SMA connector)
WEP, WPA, WPA2 security. WMM QoS service quality Multi SSID

Dimensions and Weight

Length x Width x Height: 242 x 179 x 48 mm
Approximate weight: 0.8 Kg
Format: Installation on a table and wall

Ethernet interfaces

4-port switch plus one optional WAN port (RJ45 connector)
802.3i (10BaseT), 802.3u (100BaseT), 802.3ab (1000BaseT)
Duplex support, speed link auto-negotiation IEEE 802.3u, VLAN y
802.1X

WWAN interface (optional)

Built-in hardware module with HSPA+or LTE/HSPA + technology
2 external antennas with SMA connector
Additional support for additional USB modules (license optional)

Environmental specifications

Temperature: 0 to 45 °C
Relative humidity: 5 to 90%
Atmospheric pressure: 700 to 1060 mbars

SOFTWARE TECHNICAL FEATURES

ADSL/VDSL compatibility and functions

Multiplexed VC and LLC with IP, PPPoE, PPPoA, Bridge, MLPPP support
UBR, UBR+, VBR-nrt, VBR-rt, CBR with traffic shaping
Up to 31 PVCs and OAM support

IP protocol (2)

Multicast: IGMP (v1, v2, v3), PIM-SM, MSDP, MLD, MLDv2
IPSLA service probes (delay, package loss, jitter)
High availability: VRRP, TVRP (HSRP compatible)

Security (2)

Certificates: CSR, SCEP, X.509v3, PKIX, LDAP revocation
Static and dynamic access lists and session-based Firewall
Detection of DoS and DDoS attacks

Service quality

Classification, marking, BW management, BW prioritisation and limitation
Up to 32 types 16 queues per interface
Strict policies (PQ), Low latency (LLQ), according weight/type (WFQ, CBWFQ)

Management

CLI configuration and storage in a plain text file
Assignment of user and group licenses
RADIUS and TACACS+ AAA support

IP protocol

ARP, ARP Proxy, MTU discovery, NAT, ECMP, BFD
RIP, OSPF, BGP, Policy based static and dynamic routing
Virtual Router Forwarding (Multi-VRF)

Security

IPSec support in transport and tunnel mode
Pre-shared authentication, RSA, Certificates, MDS, SHA-1
Encrypted: DES (56 bits), 3DES (168 bits), AES (128, 192 and 256 bits)

IP services

DHCP, DNS, FTP, SFTP, SSH, Telnet server and client
NTP, LDAP, Syslog, SCP, TFTP client.
DHCP, dynDNS relay

IPv6.

Dual Stack, IP6oIPv4, IPv4oIPv6, GRE, 6rd, DHCPv6, ICMPv6, SLAAC
Static and dynamic routing RIPng, OSPFv3, MP-BGP
Multicast: MLD, MLDv2, Listener, Querier

Management (2)

Netflow v5 and v9, RMON, SNMP v1, v2c and v3, Syslog support
Manageable via SMS
Remote Wireshark compatible traffic collection

ADDITIONAL TECHNICAL FEATURES

Console interface

RJ45 connector with proprietary pinouts (including adapter)
Type RS232, N81
Default speed 9600 bps, maximum speed 115200 bps

ToIP support

Protocols: SIP (UDP, TCP, TLS), H323, UA-NOE, SRTP, SCCP
Support for terminals SIP, UA-NOE, H323, SCCP
Surviving services: Calls, hold, transfers

LEDs

Power supply, Warning, USB, Wi-Fi, DSL, Eth WAN, Mobile, Ethernet Activity
2 additional LEDs for each Ethernet port (link, speed and activity)

FLEXIBLE COMMUNICATIONS SOLUTIONS THAT GROW WITH YOU.

Teldat-V corporate router

Advanced router for fixed ADSL/VDSL and/or Ethernet 3G and/or 4G mobile access



Teldat is a leading provider in Enterprise Communications equipment and Services for the top corporate to mid-sized and SME markets.

About TELDAT



ROUTERS | Wi-Fi | MANAGEMENT | TRANSPORT | SMART GRID | INDUSTRIAL | VoIP | CLOUD | SECURITY | NFV |

Teldat Group is a leading technology holding that designs, manufactures and distributes advanced Internetworking platforms for corporate environments, providing new and cutting-edge communication solutions without ever losing sight of its customers real requirements. Teldat's solutions development is based on proprietary technology, which is in the Group's DNA. This allows Teldat to be a leading provider in Enterprise Communications equipment and Services for the top corporate to midsized markets, as well as the SME and SoHo markets.

From a geographical viewpoint, Teldat Group has a presence in all continents, with its corporate headquarters located in Spain, and operational affiliates in Europe (Germany, Austria, Portugal, Italy and France) and in LATAM (Mexico and Brazil), as well as two business development offices in USA and China.



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